

ABSTRACT OF THE DISCLOSURE**Method for increasing the unambiguous distance in FSK radars**

A method used to increase the ambiguity distance of FSK radars implements a waveform made up of patterns consisting of frequency plateaux whose frequencies are alternately shifted by plus or minus a value Δf . With this waveform, the method associates processing operations to eliminate ambiguous echoes and image signals. This method has the advantage of not modifying the repetition period of the radar to which it is applied. The method according to the invention can be applied especially to radars in automobiles and especially to anti-collision radars.